

SYSTEM AND METHOD FOR FORMING  
IMAGES FOR DISPLAY IN A VEHICLE

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ABSTRACT OF THE DISCLOSURE

A system for forming images for display in a vehicle includes a lens system that directs energy from a scene toward a detector and a display unit coupled to the  
10 detector. The display unit forms an image using information received from the detector. The system also includes the detector, which includes an array of detector elements, each detector element receiving energy from a portion of the scene and converting the received  
15 energy into information representative of the received energy. The detector sends the information associated with at least some of the detector elements to the display unit. The system further includes a computer coupled to the sensor. The computer receives heading  
20 information, selects the detector elements that should be used to form an image based on the heading information, and instructs the detector which detector elements should have their associated information to the display unit.